

FMCSA Specifications for Federal Procurements Of Field Portable Computers and Peripherals

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This document provides specifications for FMCSA procurements of portable computer and peripheral hardware for field use. These specifications must be followed for all FMCSA procurements that meet the definitions below.

If you have any questions regarding these specifications, please contact Jeff Hall or Robert Miller with the FMCSA Information Systems Division.

Table of Contents

FIELD LAPTOPS (Updated 06/10/2003)	2
MANAGER LAPTOPS (Updated 06/24/2003).....	3
PORTABLE PRINTER (Updated 06/10/2003)	4
4-IN-1 MULTI-FUNCTION PRINTER (Updated 06/24/2003)	5
PORTABLE SCANNER (Updated 06/10/2003)	6
DIGITAL CAMERA (Updated 06/10/2003)	7
PERSONAL DIGITAL ASSISTANTS (PDA) (Updated 06/10/2003)	8
DC POWER ADAPTERS FOR PANASONIC (Updated 06/10/2003)	11
LAPTOP CARRYING CASE (Updated 01/20/02).....	12

Recent news: FMCSA has evaluated and now approves the use of **USB mini Compact Flash drives** in place of 1.44 floppy diskettes. These tiny drives are read/writeable and operate with any Windows 2000 or XP computer that has a USB port. Capacities include 32, 64, 128, and 256 MB with street prices ranging from \$25 to over \$150. Consider adding an external USB hub on the desk for use with desktop computers where the USB port is located on the back.

FIELD LAPTOPS (Updated 06/10/2003)

This specification will be used for procuring laptops for use in conducting Compliance Reviews, Safety Audits, and Inspections. FMCSA no longer utilizes a separate specification for Inspection laptops. This is a three spindle laptop, with integrated harddrive, CD drive, and floppy drive.

- Panasonic ToughBook 50 CF-50BB2NUDM
 - P4 2.20 GHz CPU w/ SpeedStep
 - Windows 2000 Operating System
 - 512MB SDRAM standard
 - 15" 1600 x 1200 (UXGA) TFT Active Matrix Color LCD
 - 60GB HDD (shock-mounted & easily removable)
 - 1.44MB FDD (integrated)
 - Combo DVD-ROM and CD-RW drive (integrated)
 - Electrostatic touchpad with vertical scrolling support
 - 56K modem (integrated) & 10/100 Ethernet card (integrated)
 - Two USB 2.0 ports & one IEEE 1394 (Firewire) port
 - 7.7 lbs, including battery, 1.85"(H) x 10.9"(D) x 12.8"(W)
 - 3 year warranty
 - Additional information:
<http://www.panasonic.com/computer/notebook/html/01a6.htm>



- Panasonic Accessories
 - Port Replicator CF-VEB501
 - AC Adapter (for Port Replicator) CF-AA1653AM
- Additional Accessories
 - Optical Wheel Mouse with USB and PS/2 interface D66-00029

MANAGER LAPTOPS (Updated 06/24/2003)

This specification is for a lightweight laptop for use primarily for e-mail, scheduling, address book information, and minimal word processing. Although the specified unit can be used for much more, the trade-off for going with a lightweight unit is a decrease in ease-of-use. If a manager feels he/she will be running CAPRI, ASPEN, CaseRite, or performing a great deal of word processing, we recommend procuring the standard SI laptop.

- Compaq N410c * N410CP120X230C252
 - Intel Low-Voltage Mobile Pentium III 1.2 GHz processor with SpeedStep™ technology
 - Weighs only 3.5 lbs
 - 256 MB SDRAM
 - 30 GB harddrive
 - 12.1" 1024x768 XGA TFT display
 - USB 2.0, One type II PC Card slot
 - Full size keyboard
 - Three year warranty
 - Integrated 56k modem and 10/100 network interface card
 - Magnesium display enclosure
 - Touchpad pointing device
 - Windows 2000 Operating System
 - Additional information:
[http://www.smb.compaq.com/dstore/ctoBases.asp?ProductLineId=430&FamilyId=1231&LowBaseId=7371&LowPrice=\\$1,625.00&oi=E9CED&BEID=19701&SBLID=](http://www.smb.compaq.com/dstore/ctoBases.asp?ProductLineId=430&FamilyId=1231&LowBaseId=7371&LowPrice=$1,625.00&oi=E9CED&BEID=19701&SBLID=)



- Compaq N410c accessories (required to make this a complete solution)
 - Mobil expansion unit (MEU) 286255-B25
 - 8X DVD/CD-RW Combo Drive 260472-B25
 - 1.44-MB Diskette Drive 226935-B25
 - 256 MB RAM upgrade (512 total) 197898-B25
- Additional Accessories
 - Optical Wheel Mouse with USB and PS/2 interface D66-00029

* Please note the 410 is being phased out and replaced by the nc4000. The new model is a very good single spindle notebook (similar to the N410c). However, FMCSA is planning to replace the N410c with a two spindle unit which includes harddrive and optical drive internally. USB flash drives will be used in place of a floppy drive. This update will take place in late summer 2003.

PORTABLE PRINTER (Updated 06/10/2003)

This specification is to be used for both investigators and inspectors. Portable printers are procured and serviced for investigators and inspectors through the FMCSA Technical Support hotline.

- Canon BJC-85 * Q30-3210-US1
 - Speed: Up to 5 ppm in black / 2 ppm in color
 - Resolution*: 720 x 360 dpi for black
 - Compatibility: Windows® 95, 98, ME, NT 4.0, 2000, & CE 2.10/2.11
(*Note: This unit is not DOS compatible)
 - Wireless printing: Infrared port (fast IrDA)
 - Sheet feeder: 30 sheets, integrated
 - Interfaces include USB 1.0, IEEE 1284 parallel, and Fast IrDA
 - 3.1 lbs
 - Additional information:
<http://consumer.usa.canon.com/printers/bjc85/index.html>
 - Estimated price \$249



* The new Canon i70 bubblejet printer is currently under evaluation.

** The HP 450 was determined to be too heavy for FMCSA field staff.

4-IN-1 MULTI-FUNCTION PRINTER (Updated 06/24/2003)

This specification should be used when procuring an all-in-one device for telecommuters. This is a desktop printer, fax, and scanner. The unit specified is not portable. Cables are procured separately. 3-in-1 printers are procured and serviced locally.

- HP OfficeJet 7110 C8390A
 - Print/Copy/Scan/Fax
 - Connectivity – USB, optional parallel cable adapter (C6502A)
 - RAM – 16 MB
 - Printer – Color inkjet, up to 22 ppm in black, up to 18 ppm in color, 4800 x 1200 dpi resolution, duplex printing optional, Paper (plain, inkjet, photo), envelopes, transparencies, labels, cards, 50 page sheet feeder
 - Fax – 3 seconds per page, Color, 300x300 resolution, 100 page memory
 - Scanner – Flatbed, 1200x4800 dpi, 48 bit color
 - Software – HP Director, HP Scan to Web Software, HP Creative Photo Projects, ReadIRIS OCR
 - Copier – Up to 18 pages per minute, digital
 - For additional information:
<http://h10010.www1.hp.com/wwpc/us/en/ho/WF06b/18972-238444-236260-12019-f6-91462-91473-91474.html>
 - Estimated street price \$399



PORTABLE SCANNER (Updated 06/10/2003)

This specification will be used when procuring portable scanners for use by investigators and inspectors.

- Visioneer Strobe XP 100 * 90-0493-500
 - Connectivity – USB
 - Resolution – 600x600 dpi
 - Scanner bit depth (color) – 36-bit
 - Power – Via USB, no separate power supply required
 - Weight – 10.6 oz
 - Dimensions – 1.5" x 2" x 11.4"
 - Software includes:
 - Document management – PaperPort Deluxe 8.0
 - OCR – TextBridge Pro 9 OCR
 - Image editor – ArcSoft PhotoImpression by Visioneer
 - OS – Win 98/ME/2000/XP
 - Additional information:
<http://www.visioneer.com/products/sheetfed/xp100/home.html>
 - Estimated price \$199



* The Strobe XP 200 is under evaluation. While the 200 does have minor enhancements, it is larger and heavier.

DIGITAL CAMERA (Updated 06/10/2003)

This specification will be used when procuring digital cameras for use by investigators and inspectors. A digital camera is an excellent tool for documenting violations such as a cracked trailer frame.

- Canon PowerShot S45
 - Resolution – 4 megapixel
 - Zoom – 3x optical
 - Lens – 35-105mm 35mm equivalent, F/2.8-F/4.9
 - Body – All metal
 - Lens cover – Sliding door built into body
 - Flash – Built in
 - Voice annotation
 - Battery – Lithium ion, rechargeable
 - Weight – 9.2 oz for camera body only
 - Connectivity – USB 1.1 (cable included)
 - Storage media – CompactFlash (CF) Type I or II
 - Software includes:
 - Drivers & Utilities
 - Canon PhotoStitch
 - Canon ZoomBrowser EX
 - ArcSoft PhotoImpression
 - ArcSoft VideoImpression
 - Canon ImageBrowser
 - Canon Remote Capture
 - PC Requirements:
 - Operating System – Windows 98, ME, 2000, XP
 - CPU – Pentium 150 or faster
 - RAM – 128 MB for XP, 64 MB for other OS
 - Additional information:
<http://www.powershot.com/powershot2/s45/index.html>
 - Estimated price - \$499



- Recommended accessories for digital camera
 - Lexar 128 MB 12x CompactFlash
 - Canon soft case (PSC-30)

PERSONAL DIGITAL ASSISTANTS (PDA) (Updated 06/10/2003)

FMCSA has established three specifications for handheld computer devices. The first is for use by managers solely as a personal information management tool and is referred to as the "Manager PDA." The unit is small and lightweight, but lacks expandability. The second unit is for use by field personnel in conducting enforcement activities such as driver/vehicle inspections and is referred to as the "Field Activity PDA." This unit is somewhat larger, heavier and expensive, but is much more flexible, expandable, and has integrated wireless LAN connectivity. The third is for personnel that need expandability, but prefer a less expensive option that does not include integrated wireless LAN connectivity. This is referred to as the "Expandable PDA."

Manager PDA

- HP IPAQ Pocket PC h1910 * Part # 311324-001
 - Processor – Intel® PXA 250 200 MHz w/ XScale technology
 - Memory - 48 MB SDRAM, 16 MB NAND Flash
 - Operating system – Pocket PC 2002
 - Weight – 4.2 oz
 - Dimensions – 4.46 x 2.75 x .50 in
 - Expansion slot – SD/MMC slot
 - Display – Color transfective TFT with LED backlight, 64K colors 16-bit, 240 x 320 resolution, 3.5" viewable image size
 - Input type – Pen and touch
 - External input/output ports – Infrared Port (IrDA SIR), Cradle/Synch/Power Port, Audio Jack (2.5 mm)
 - Software – iPAQ Pocket PC Companion CD-ROM, Microsoft® Outlook 2000, Microsoft® ActiveSync 3.5, add-on software and applications, reference guide
 - Additional hardware included – slim removable battery, USB synchronization cable, AC adapter, charging adapter
 - Additional information –
<http://h20022.www2.hp.com/busprod/overview/0,12512,series=296097%5Etype=64929%5Ecategory=215383,00.html?lsidebarLayId=106&rsidebarLayId=63>
 - Price approx. \$299



* Please note the h1910 is NOT compatible with standard IPAQ expansion sleeves. Use is limited to personal information management activities such as calendar, contact list, email, etc.

Field Activity PDA

- HP IPAQ Pocket PC h5450 * Part # 264493-001
 - Security – Integrated biometric fingerprint reader
 - Wireless connectivity – integrated WLAN (802.11b), Bluetooth, Consumer IR, and IrDA (115Kbps)
 - Processor – Intel® 400 MHz with XScale technology
 - Memory – 64 MB SDRAM, 48 MB Flash ROM
 - Operating System – Pocket PC 2002
 - Weight – 7.26 oz
 - Dimensions – 3.3 x 0.63 x 5.43" (w/ LAN antenna)
 - Expansion slot – SD/MMC slot
 - Display – Transflective TFT LCD, over 65,000 colors 16-bit, 240 x 320 resolution, 3.8" diagonal viewable image size
 - Input type – Pen and touch
 - Software – Calendar, Contacts, Task, Voice Recorder, Notes, Pocket Word, Pocket Excel, Pocket Internet Explorer, Windows Media Player 8, Calculator, Inbox, Microsoft Reader, File Explorer, MSN Messenger, Terminal Services Client, VPN Client
 - Additional hardware included – slim removable battery, protective cover pack, universal cradle for USB or serial connection, extra stylus, AC adapter, charger adapter
 - Additional information –
<http://h20022.www2.hp.com/busprod/overview/0,12512,series=96475%5Etype=64929%5Ecategory=215383,00.html?lsidebarLayId=106&rsidebarLayId=63>
 - Price approx. \$649



* Please note the h5450 is fully compatible with standard IPAQ expansion sleeves. These sleeves provide additional functionality, including CompactFlash (CF) slots, PC Card slots, 1 or 2 dimensional bar code readers, network interface cards, GPS solutions, PowerPoint presentation solutions, and more.

Expandable PDA

- HP IPAQ Pocket PC h3970 * Part # 269809-001
 - Processor – 400 MHz Intel® PXA250 Application Processor
 - Memory – 64 MB SDRAM, 48 MB Flash ROM
 - Operating System – Pocket PC 2002
 - Weight – 6.5 oz, including battery
 - Dimensions – 5.3 x 3.3 x 0.6 in
 - Expansion slot – SD/MMC slot
 - Display – Transflective TFT LCD, over 65,000 colors 16-bit, 240 x 320 resolution, 3.8" diagonal viewable image size
 - Input type – Pen and touch
 - Software – Calendar, Contacts, Task, Voice Recorder, Notes, Pocket Word, Pocket Excel, Pocket Internet Explorer, Windows Media Player 8, Calculator, Inbox, Microsoft Reader, File Explorer, MSN Messenger, Terminal Services Client, VPN Client, Outlook 2000, Microsoft ActiveSync 3.5
 - Additional hardware included – universal cradle for both USB and serial connections, protective jacket including guide, AC adapter, extra styli, DC adapter plug
 - Warranty – One year parts and labor
 - Additional information –
<http://h10010.www1.hp.com/wwpc/us/en/sm/WF05a/215348-64929-215381-314903-215381-322896.html>
 - Price approx. \$450



* Please note the h3970 is fully compatible with standard IPAQ expansion sleeves. These sleeves provide additional functionality, including CompactFlash (CF) slots, PC Card slots, 1 or 2 dimensional bar code readers, network interface cards, GPS solutions, PowerPoint presentation solutions, and wireless connectivity.

DC POWER ADAPTERS FOR PANASONIC (Updated 06/10/2003)

This specification will be used when procuring a DC power adaptor for Panasonic CF-48 and CF-72 laptop computers. This adapter will operate the laptop and charge the battery in an automobile.

- Lind 80 Watt Adapter for CF48, CF72, and CF50 series laptop computers
Model # PA1555-655
 - Weight – 13 oz
 - Input Voltage – 11 to 16 Vdc
 - Input Noise Filter
 - Output Voltage 15.6 Vdc
 - Output Current 5.5 amps (max)
 - Connector MP205 R/A
 - Auto Input Cable 18 Inches
 - Output Cable 36 Inches
 - Internal Overtemperature Shut Down
 - Low Input Voltage Shut Down
 - High Input Voltage Shutdown
 - Automatic Shut Down Reset
 - 3 Year warranty includes coverage of electronics, cables and connectors.
 - Additional information:
http://www.lindelectronics.com/cgi-bin/Store7/PerlShop.cgi!/ORDERID!/aaa/PA1555-655/dbx_gen_detail_product
 - Price appox. \$120



* Please note this adapter can not be used in the airline in-seat power systems. The air in-seat power systems are limited to an output of only 75 Watts. A separate specification is under review for powering portable printers (12 VDC to AC 120V/60Hz, Model # PROEM-00150, by Genius Power and sold by Lind Electronics).

LAPTOP CARRYING CASE (Updated 01/20/02)

Model unspecified, but should, at minimum, accommodate laptop, printer, and all accessories. Suggested manufacturers, include Tenba and Targus. Models to consider include:

Targus – Top-loading Air Universal	(\$ 99)
Targus – Port 2.1 Easyroller Case	(\$149)
Tenba – Tenba Computer Traveler	(\$170)

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The FMCSA laptop specifications in this document are updated two-to-four times per year and are researched and maintained by Jeff Hall. Please contact Mr Hall at jeff.hall@fmcsa.dot.gov if you find an issue with a specification in this document.